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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,921	11/24/2003	Jan Karel Frederik Buijink	TS-1309 (US) JDA:KNL	5234
23632 SHELL OIL C	7590 01/23/200 OMPANY	EXAMINER .		
P O BOX 2463			DENTZ, BERNARD I	
HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER
			1625	
			·	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/720,921	BUIJINK ET AL.			
		Examiner	Art Unit			
		Bernard Dentz	1625			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on					
2a)□		—· action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,٠	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	, , , , , , , , , , , , , , , , , , , ,				
_	Claim(s) 1-20 is/are pending in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
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7)	Claim(s) <u>1-20</u> is/are rejected. Claim(s) is/are objected to.					
	· · · · · · · · · · · · · · · · · · ·	r election requirement	·			
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
•	3. Copies of the certified copies of the priority documents have been received in this National Stage					
* 0	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachmen	r(e)					
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	4)  Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) 🛛 Inform	nation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal				
rape	r No(s)/Mail Date	6)				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-11 and 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 6,114,552 cited by applicants. Applicants recite the same process recited in claim 1 for preparing an epoxidation catalyst. The temperature range in the patent for drying the silica gel carrier includes the instant range. Note the calcinations, hydrolysis and silylation steps are taught at col. 4 to col. 6.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Han et al, US Patent 6,114,552 cited by applicants. It discloses the instant process for the production of a Si-Ti containing epoxidation catalyst. At the top of col. 4 it states that "it is highly desirable to dry the inorganic siliceous solid prior to impregnation. Drying may be accomplished, for example by heating the inorganic siliceous solid for several hours at a temperature of 100 to 700 degrees C, preferably at least 200 degrees C. The calcinations and silylation steps of claims 7 and 8 are taught at col. 4 and 5 of the

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reference. Thus it would have been obvious to select a part of the compact range of temperatures recited in the reference.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The definition of "weight average particle size" is not clear.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 571-272-0683. The examiner can normally be reached on Mon-Fri from 8 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie, can be reached on 571 272-0670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dentz 1-16-2007

BERNARD DENTZ PRIMARY EXAMINER